

**In the Claims**

The following listing of claims will replace all prior versions and listings of claims in the application:

1. (canceled)
2. (previously presented) An extended length light emitting diode for use in an apparatus to be viewed by an observer, comprising:
  - a. an LED die having electrical connection leads connected thereto and extending therefrom;
  - b. a molded body of electrical insulating material encompassing the LED die and a portion of each of the electrical connection leads and thereby protecting the LED die from the environment and insulating and supporting each of the electrical connection leads, said molded body having a length and a cylindrical shape terminating in an upper domed portion through which light emitted from the LED die emanates for viewing;
  - c. an extended length portion formed of electrical insulating material extending from the molded body and making longer the length of the molded body, the extended length portion encompassing an additional portion of each of the electrical connection leads and thereby further insulating and supporting each of the electrical connection leads, the extended length portion having a cylindrical shape matching the cylindrical shape of the molded body and a bottom which is planar in its entirety; whereby,
  - d. the extended length of the light emitting diode as provided by the extended length portion with its entirely planar bottom allows for auto-insertion of the extended length light emitting diode into a printed circuit board with the entirely planar bottom bearing directly against and lying flush with the upper surface of the printed circuit board without the need for an interceding spacer.

3. (previously presented) An extended length light emitting diode for use in an apparatus to be viewed by an observer, comprising:

- a. an LED die having electrical connection leads connected thereto and extending therefrom;
- b. a molded body of electrical insulating material encompassing the LED die and a portion of each of the electrical connection leads and thereby protecting the LED die from the environment and insulating and supporting each of the electrical connection leads, said molded body having a length and a cylindrical shape terminating in an upper domed portion through which light emitted from the LED die emanates for viewing;
- c. a molded extended length body region formed of electrical insulating material and being integral to and formed in one unitary mass with the molded body and making longer the length of the molded body, the molded extended length body region encompassing an additional portion of each of the electrical connection leads and thereby further insulating and supporting each of the electrical connection leads, the molded extended length body region having a cylindrical shape matching the cylindrical shape of the molded body and a base which is planar in its entirety; whereby,
- d. the extended length of the light emitting diode as provided by the molded extended length body region with its entirely planar base allows for auto-insertion of the extended length light emitting diode into a printed circuit board with the entirely planar base directly against and lying flush with the

upper surface of the printed circuit board without the need for an interceding spacer.

4. (previously presented) An extended length light emitting diode for use in an apparatus to be viewed by an observer, comprising:

- a. an LED die having electrical connection leads connected thereto and extending therefrom;
- b. a molded body of electrical insulating material encompassing the LED die and a portion of each of the electrical connection leads and thereby protecting the LED die from the environment and insulating and supporting each of the electrical connection leads, said molded body having a length and a cylindrical shape extending from a base to an upper domed portion through which light emitted from the LED die emanates for viewing;
- c. a molded body extension formed of electrical insulating material, the molded body extension being separate from the molded body and having a length bounded by a lower surface which is planar in its entirety and an upper surface, the molded body extension having a cylindrical shape between the entirely planar lower surface and the upper surface which matches the cylindrical shape of the molded body, and the molded body extension further having individual holes for each of the electrical connection leads extending therethrough from the upper surface to the entirely planar lower surface;
- d. the molded body extension being fitted to the molded body with the individual holes receiving the electrical connection leads and with the upper surface abutting and being permanently affixed to the base of the molded body, the molded body extension thereby making longer the length of the molded body; whereby,

e. the extended length of the light emitting diode as provided by the molded body extension with its entirely planar lower surface allows for auto-insertion of the extended length light emitting diode into a printed circuit board with the entirely planar lower surface bearing directly against and lying flush with the upper surface of the printed circuit board without the need for an interceding spacer.

5. (previously presented) The extended length light emitting diode according to claim 4, wherein the base of the molded body and the upper surface of the molded body extension are both planar.

6. (previously presented) The extended length light emitting diode according to claim 4, wherein the upper surface of the molded body extension is permanently affixed to the base of the molded body by adhesive.

7. (previously presented) In combination, a display including:

- a. a printed circuit board;
- b. at least one LED, the at least one LED including:
  - (1) an LED die, the LED die having LED electrical connection leads depending therefrom;
  - (2) an upper molded body, the upper molded body encompassing the LED die and upper regions of the LED electrical connection leads, the upper molded body having an upper domed portion through which light emitted from the LED emanates for viewing by an observer, a cylindrical surface and a base from which the LED electrical connection leads extend;
  - (3) lower molded body, the lower molded body, encompassing lower regions of the LED electrical connection leads, the lower molded body having an upper surface, a cylindrical surface co-aligned with the upper molded body, and a planar base, the upper molded and lower molded body being mated together, with the LED electrical connection leads extending from the planar base; and,
- c. wherein the planar base is flush placed and mounted upon and sealed to the upper surface of the printed circuit board by coating material applied to the periphery of the planar base and the LED electrical connection leads extend through the printed circuit board and are solder connected to the printed circuit board such that the LED is held stable and protected from the environment at a desired extended displacement from the printed circuit board by the combination of flush placed and mounted upon and

sealed to the upper surface of and solder connection  
relationships with the printed circuit board.

8. (previously presented) The combination of claim 7, further comprising a faceplate, the faceplate being spaced apart from the upper face of the printed circuit board, the faceplate having at least one hole, and wherein the upper molded body of the at least one LED projects through the at least one hole such that the LED is stably supported and positionally well suited for viewability and increased contrast by an observer due to the desired extended displacement from the printed circuit board.

9. (previously presented) The combination of claim 8, wherein the at least one LED is one of a plurality of LEDs and the at least one hole is one of a plurality of holes and the display is an alpha-numeric display.

10. (previously presented) The combination of claim 8, wherein the at least one LED is one of a plurality of LEDs and the at least one hole is one of a plurality of holes and the display is a graphic display.